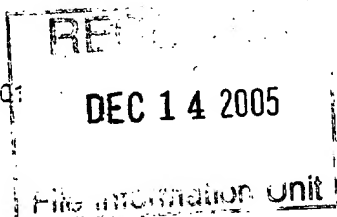


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US005541206A

United States Patent [19]**Kempf et al.**[11] **Patent Number:** **5,541,206**[45] **Date of Patent:** **Jul. 30, 1996**[54] **RETROVIRAL PROTEASE INHIBITING COMPOUNDS**[75] **Inventors:** **Dale J. Kempf**, Libertyville; **Daniel W. Norbeck**, Crystal Lake; **Hing Leung Sham**; **Chen Zhao**, both of Gurnee, all of Ill.[73] **Assignee:** **Abbott Laboratories**, Abbott Park, Ill.[21] **Appl. No.:** **423,387**[22] **Filed:** **Apr. 25, 1995****Related U.S. Application Data**

[63] Continuation of Ser. No. 158,587, Dec. 2, 1993, abandoned, which is a continuation-in-part of Ser. No. 998,114, Dec. 29, 1992, abandoned, which is a continuation-in-part of Ser. No. 777,626, Oct. 23, 1991, abandoned, which is a continuation-in-part of Ser. No. 746,020, Aug. 15, 1991, abandoned, which is a continuation-in-part of Ser. No. 616,170, Nov. 20, 1990, abandoned, which is a continuation-in-part of Ser. No. 518,730, May 9, 1990, Pat. No. 5,142,056, which is a continuation-in-part of Ser. No. 456,124, Dec. 22, 1989, abandoned, which is a continuation-in-part of Ser. No. 405,604, Sep. 8, 1989, abandoned, which is a continuation-in-part of Ser. No. 355,945, May 23, 1989, abandoned.

[51] **Int. Cl.⁶** **A61K 31/425**; **C07D 413/12**; **C07D 417/12**[52] **U.S. Cl.** **514/365**; **548/204**; **548/194**; **548/187**; **548/235**; **548/227**; **548/228**; **548/229**; **514/374**; **514/369**; **514/370**; **514/376**; **514/377**[58] **Field of Search** **514/365**, **374**, **514/369**, **370**, **376**, **377**; **548/204**, **194**, **187**, **235**, **227**, **228**, **229**[56] **References Cited****U.S. PATENT DOCUMENTS**

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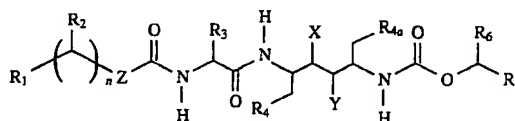
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Primary Examiner—Jane Fan*Attorney, Agent, or Firm*—Steven R. Crowley[57] **ABSTRACT**

A retroviral protease inhibiting compound of the formula:



is disclosed.

19 Claims, No Drawings